PROPRIETARY AND CONFIDENTIAL

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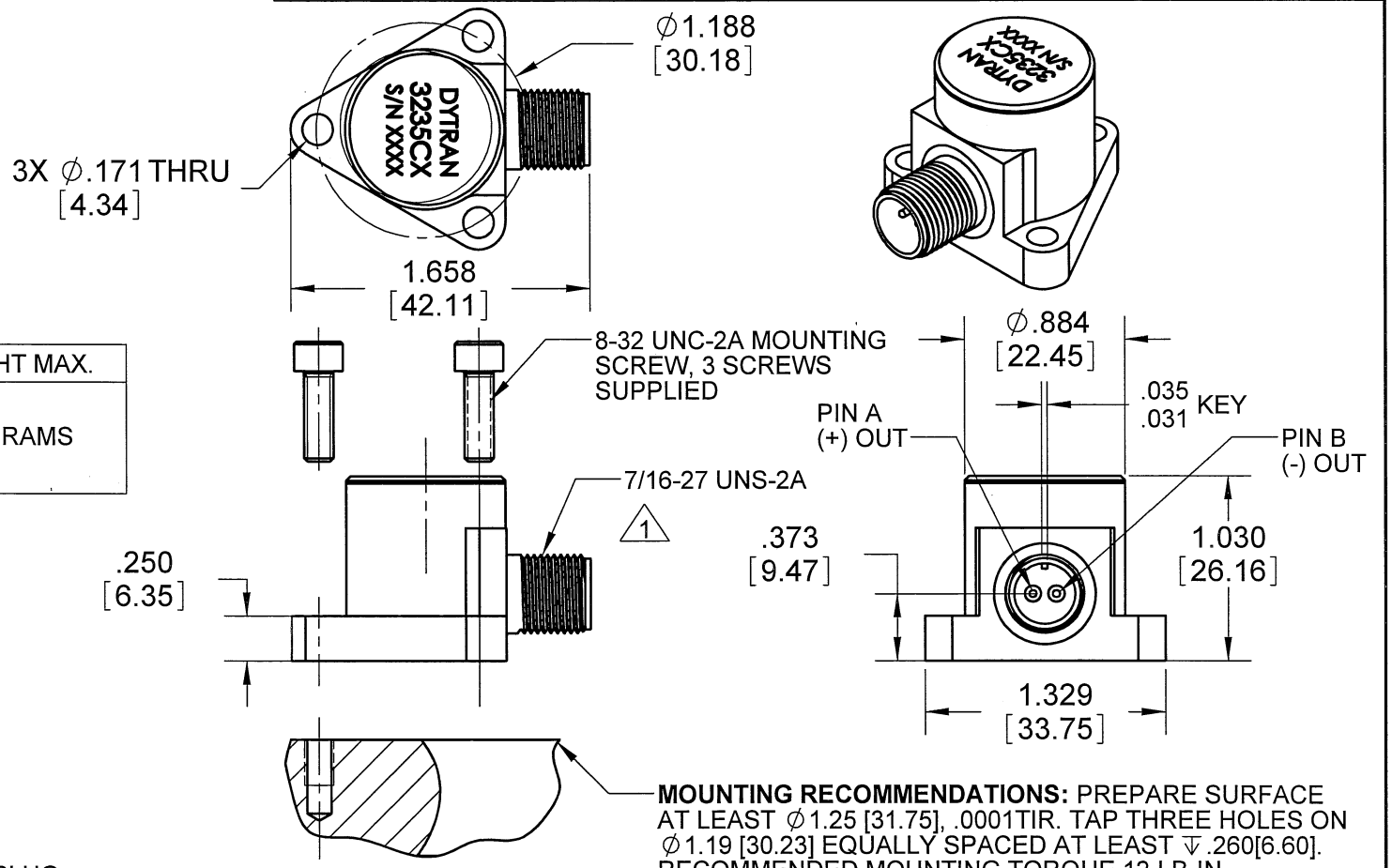
REVISIONS

REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	6066	INITIAL RELEASE	JLS 07/14/09		



MODEL	SENSITIVITY	WEIGHT MAX.
3235C1	50pC/G	55 GRAMS
3235C2	100pC/G	
3235C3	200pC/G	

MOUNTING RECOMMENDATIONS: PREPARE SURFACE AT LEAST ∅1.25 [31.75], .0001TIR. TAP THREE HOLES ON ∅1.19 [30.23] EQUALLY SPACED AT LEAST ↧.260[6.60]. RECOMMENDED MOUNTING TORQUE 12 LB-IN.

1 MATES WITH GLENAIR G345-1 PLUG

NOTES: UNLESS OTHERWISE SPECIFIED

USED ON	NEXT ASSY
APPLICATION	

THIRD ANGLE PROJECTION
USA

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS.
THDS PER MIL-S-7742.
DIMENSIONS APPLY AFTER FINISHING.

63
ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS ARE IN MILLIMETERS.
TOLERANCES ARE:

DECIMALS INCH	METRIC	ANGLES
.XX ± .03	.X ± 0.8	± 1°
.XXX±.010	.XX ± 0.25	

MATERIAL

FINISH

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
ORIG	JS	07/01/09
CHK		01/25/10
APP		1/28/10
APP		

DYTRAN INSTRUMENTS, INC. Chatsworth, CA

MASTER
ONLY IF IN RED

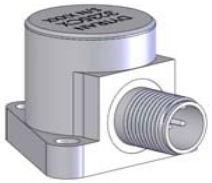
TITLE: OUTLINE/INSTALLATION DRAWING 3235C

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3235C	A

SCALE: 1:1 | SOLIDWORKS | SHEET 1 OF 1

172-0081, REV B

MODEL NUMBER	PERFORMANCE SPECIFICATION	DOC NUMBER
3235C2	Accelerometer, Single Axis Differential, Charge Mode	PS3235C2
		REV A, ECN 6617, 03/09/10



Actual Size

- **HIGH-TEMPERATURE OPERATION**
- **HIGH CHARGE SENSITIVITY**
- **EXTREME STABILITY OVER TEMPERATURE**
- **BALANCED DIFFERENTIAL OUTPUT**

		ENGLISH		SI	
PHYSICAL					
Weight, Max		1.9	oz	55	grams
Size	Length	1.65	inch	42.11	mm
	Height	1.03	inch	26.16	mm
Mounting, Three-hole	Diameter	1.19	inch	30.23	mm
Connector[1]	Material	St .Steel		St .Steel	
	Type	2-Pin		2-Pin	
Housing	Material	Inconel		Inconel	
Isolation	Pins to Housing	10GΩ MIN		10GΩ MIN	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Compression		Compression	
PERFORMANCE					
Sensitivity [2]+/-5%		100	pC/g	10.19	$pC/m/s^2$
Acceleration Range		[3]	Gpeak	[3]	m/s^2 peak
Frequency Range, ±15%		[4] - 10,000	Hz	[4]- 10,000	Hz
Resonance Frequency		35	kHz	35	kHz
Transverse Sensitivity		5	%	5	%
Insulation Resistance (75°F)		250	GΩ	250	GΩ
Insulation Resistance (400°F)		10	GΩ	10	GΩ
Insulation Resistance (450°F)		100	MΩ	100	MΩ
Insulation Resistance (550°F)[5]		15	MΩ	15	MΩ
Operating Temperature		-60 to 550	°F	-51 to 287	°C
Capacitance, pin to pin		3200	pF	3200	pF
Unbalance between pins		<2	pF	<2	pF
Linearity		1	%	1	%
ENVIRONMENTAL					
Shock, MAX		2000	g pk	19620	m/s^2
Vibration, MAX		1000	g pk	9810	m/s^2
Seal		Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss		0.000008	g/Gauss	0.000078	m/s^2/Gauss
Base Strain Sensitivity		0.09	g/με	0.88	m/s^2/με

This family also includes:

Model	Sensitivity (pC/g)	Range (Gpeak)	Oper. Temp(°F)		
3235C1	50	[3]	-60 to 550[5]		
3235C3	200	[3]	-60 to 550[5]		

Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Model 6535 Mounting Screw, 8-32 thread (3)

2) Accredited Calibration Certificate (ISO 17025)

Notes:

[1] 2-Pin, Glass-To-Metal Seal connector. Mates With Glenair G345-1 Plug.

[2] Actual Sensitivity Is Given On A Calibration Certificate

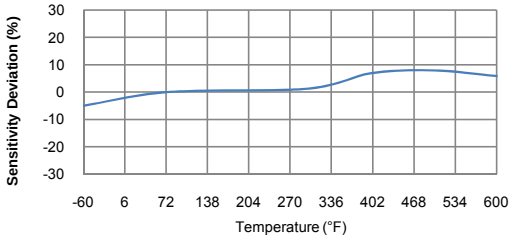
[3] Depends On the Gain Setting Of The Charge Amplifier Used

[4] Low Frequency Response Is the Function Of the Discharge Time Constant Of The Charge Amplifier Used. Please, Refer To The Plot Below For Frequency Response For Different Time Constants

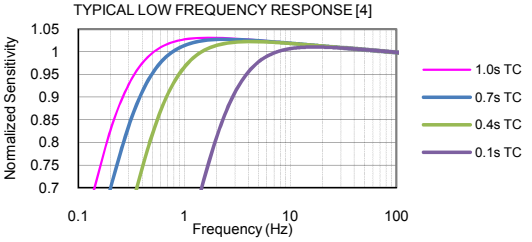
[5] The unit is able to withstand short exposure of 600F temperature

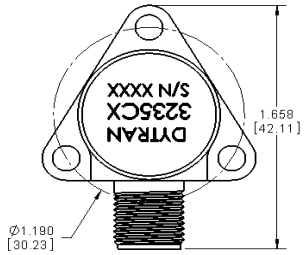
[6] In the interest of constant product improvement, we reserve the right to change specifications without notice.

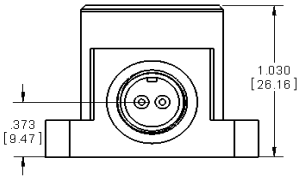
TYPICAL TEMPERATURE RESPONSE



TYPICAL LOW FREQUENCY RESPONSE [4]







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3235C for more information.

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